



FG16R16-0,6/1 kV

Reaction to Fire CPR: C_{ca}-s3,d1,a3

Single-core power cables, G16 rubber insulated, PVC sheathed, with flexible conductors for fixed installations. Resistant to fire propagation with reduced emission of corrosive gases under fire conditions.

Rated voltage

U_o/U 0,6/1 kV

Maximum voltage

1,8 kV d.c. also to earth

Standards

CEI 20-13, CEI Unel 35318, CEI 20-11, EN 60228, EN 50399, EN 60754-2, EN 60332-1-2, EN 50575:2014+A1:2016.

Regulation Construction Products

305/2011 EU.

European directives

2014/35/UE (LVD) - 2011/65/CE e 2015/863/EU (RoHS).

Conductor

Flexible annealed plain copper, class 5 (EN IEC 60228)

Insulation

Hard ethylene propylene rubber (HEPR) compound, of type G16, with reduced emission of halogen (corrosive gases) under fire conditions. Colour of the core: black

Sheath

PVC of type R16 with reduced emission of halogen (corrosive gases) under fire conditions. Colour: light grey.

Marking

Continuous marking on the sheath: « ICEL or LOMBARDA FG16R16-0,6/1 kV nominal cross section IEMMEQU EFP ECOGAMMA production date Made in Italy Cca-s3,d1,a3 »; under the sheath the IEMMEQU thread. Progressive meter marking.

Guidance for Use

For internal installations, also in wet locations and for external installations; for installation in surface mounted or on metallic structures; direct laying in earth permitted.

FG16R16 cables are suitable for general applications in construction work subject to fire reaction requirements; for bundle installations with high fire risks, having fire reaction class Cca-s3,d1,a3.

See also the guide to use standard CEI 20-67.

According to CPR EN 50399



EN IEC 60332-1-2



Minimum installation and handling temp 0 °C



Maximum operating temperature on the conductor



Maximum short circuit temperature (max 5 sec)



Minimum usage temperature -15 °C



Maximum tensile stress 5 kg/mm²



Minimum internal bending radii 4 times the overall diameter



Low emission of corrosive gases



Lead Free Ecogamma



According to RoHS



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CE 0051 EAC

Number and nominal cross-sectional area of conductors mm ²	Maximum diameter of conductor wires mm	Thickness of insulation specified value mm	Indicative core diameter mm	Thickness of the sheath specified value mm	Maximum overall diameter mm	Indicative cable weight g/m	Maximum Resistance of conductors at 20 °C ohm/km
1 x 1,5	0,26	0,7	2,9	1,4	8,2	79	13,3
1 x 2,5	0,26	0,7	3,4	1,4	8,7	94	7,98
1 x 4	0,31	0,7	3,9	1,4	9,3	112	4,95
1 x 6	0,31	0,7	4,4	1,4	9,9	139	3,30
1 x 10	0,41	0,7	5,3	1,4	10,9	188	1,91
1 x 16	0,41	0,7	6,4	1,4	11,4	227	1,21
1 x 25	0,41	0,9	8,2	1,4	13,2	331	0,780
1 x 35	0,41	0,9	9,5	1,4	14,6	425	0,554
1 x 50	0,41	1,0	11,2	1,4	16,4	579	0,386
1 x 70	0,51	1,1	13,2	1,4	18,3	784	0,272
1 x 95	0,51	1,1	14,7	1,5	20,4	989	0,206
1 x 120	0,51	1,2	16,6	1,5	22,4	1250	0,161
1 x 150	0,51	1,4	18,6	1,6	24,8	1540	0,129
1 x 185	0,51	1,6	20,7	1,6	27,2	1890	0,106
1 x 240	0,51	1,7	23,5	1,7	30,4	2410	0,0801
1 x 300	0,51	1,8	26,1	1,8	33,0	3030	0,0641
1 x 400	0,51	2,0	29,8	2,0	37,7	4020	0,0486